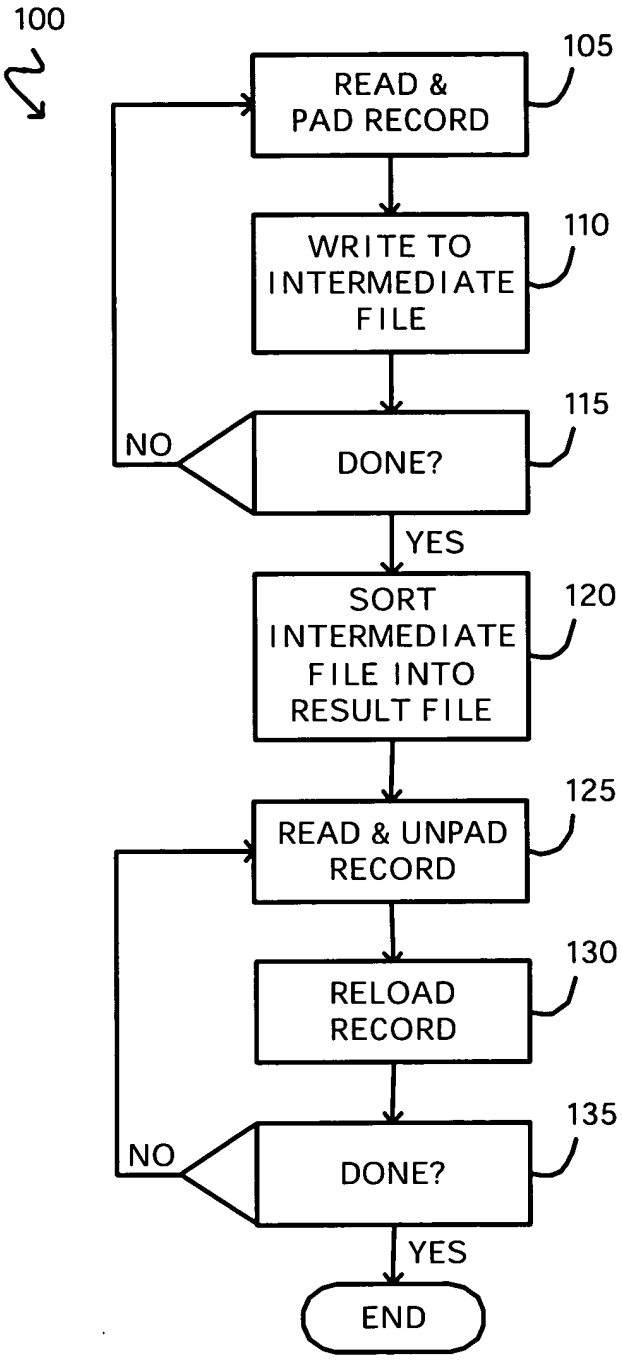

FIG. 1
(PRIOR ART)

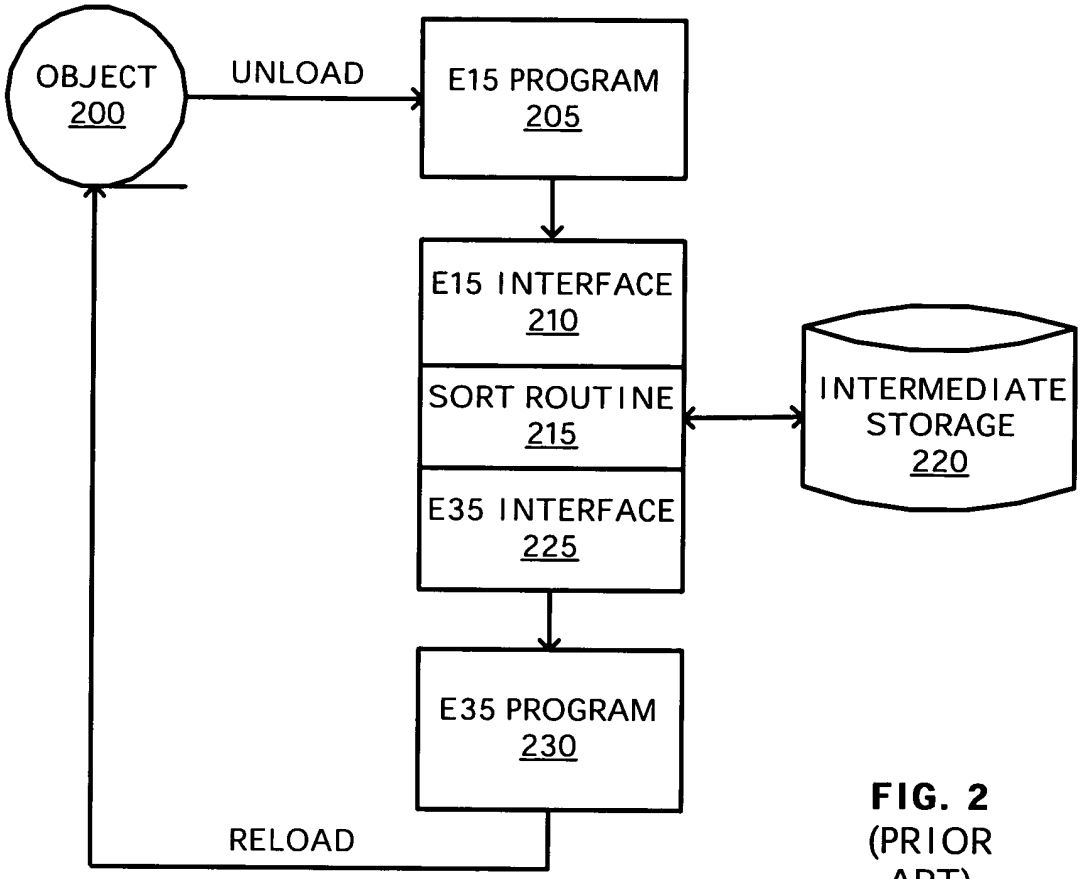

FIG. 2
(PRIOR ART)

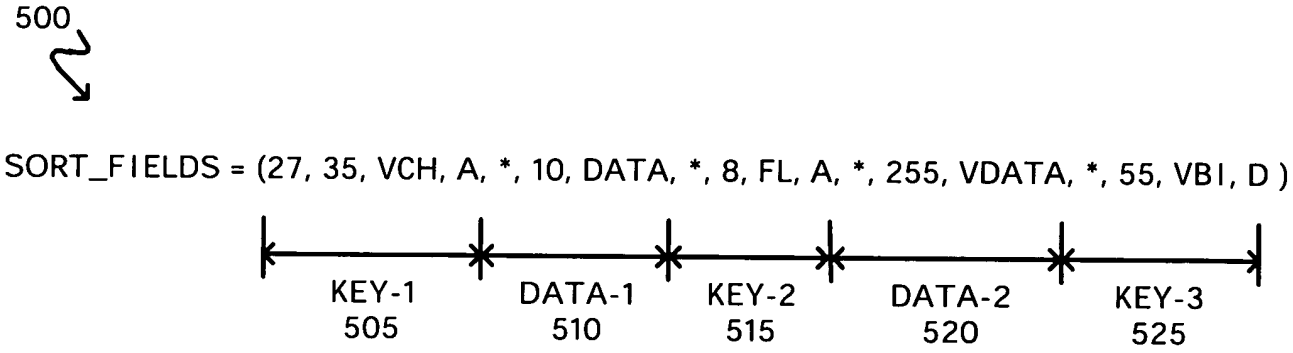

FIG. 5

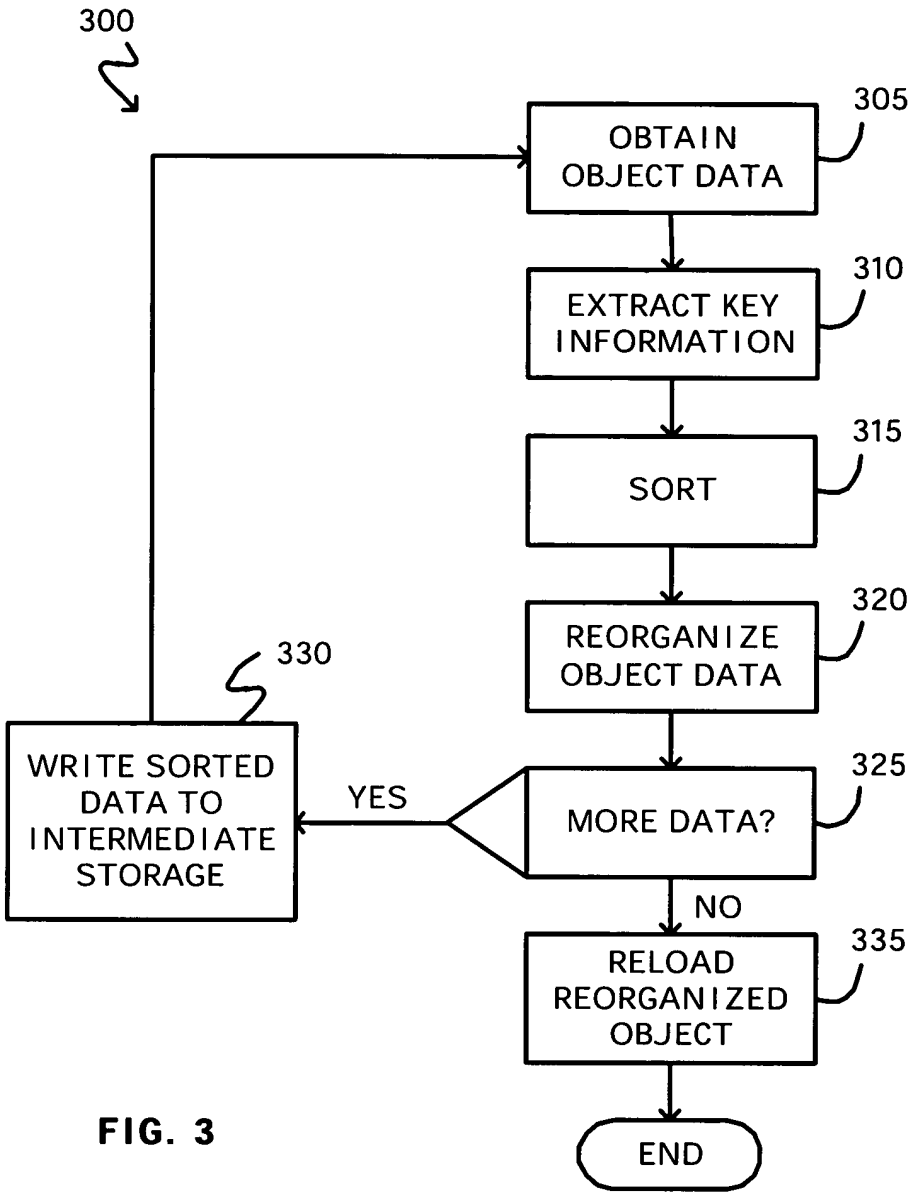
300
OBTAIN OBJECT DATA
305
EXTRACT KEY INFORMATION
310
SORT
315
REORGANIZE OBJECT DATA
320
MORE DATA?
325
YES
NO
WRITE SORTED DATA TO INTERMEDIATE STORAGE
330
RELOAD REORGANIZED OBJECT
335
END

FIG. 3

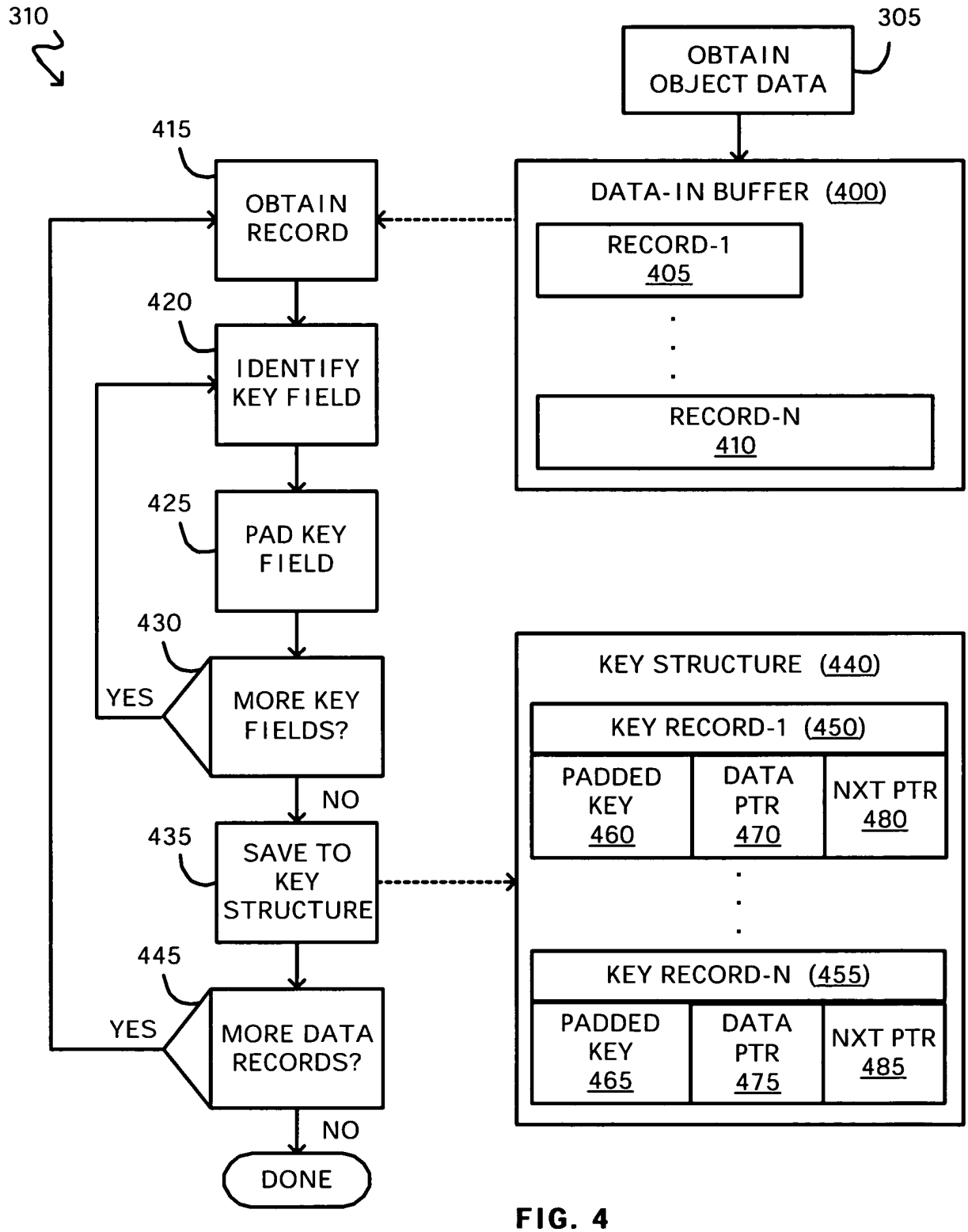
310
305
OBTAIN OBJECT DATA
415
OBTAIN RECORD
DATA-IN BUFFER (400)
RECORD-1 405
RECORD-N 410
420
IDENTIFY KEY FIELD
425
PAD KEY FIELD
430
MORE KEY FIELDS?
YES
NO
435
SAVE TO KEY STRUCTURE
KEY STRUCTURE (440)
KEY RECORD-1 (450)
PADDED KEY 460
DATA PTR 470
NXT PTR 480
KEY RECORD-N (455)
PADDED KEY 465
DATA PTR 475
NXT PTR 485
445
MORE DATA RECORDS?
YES
NO
DONE

FIG. 4

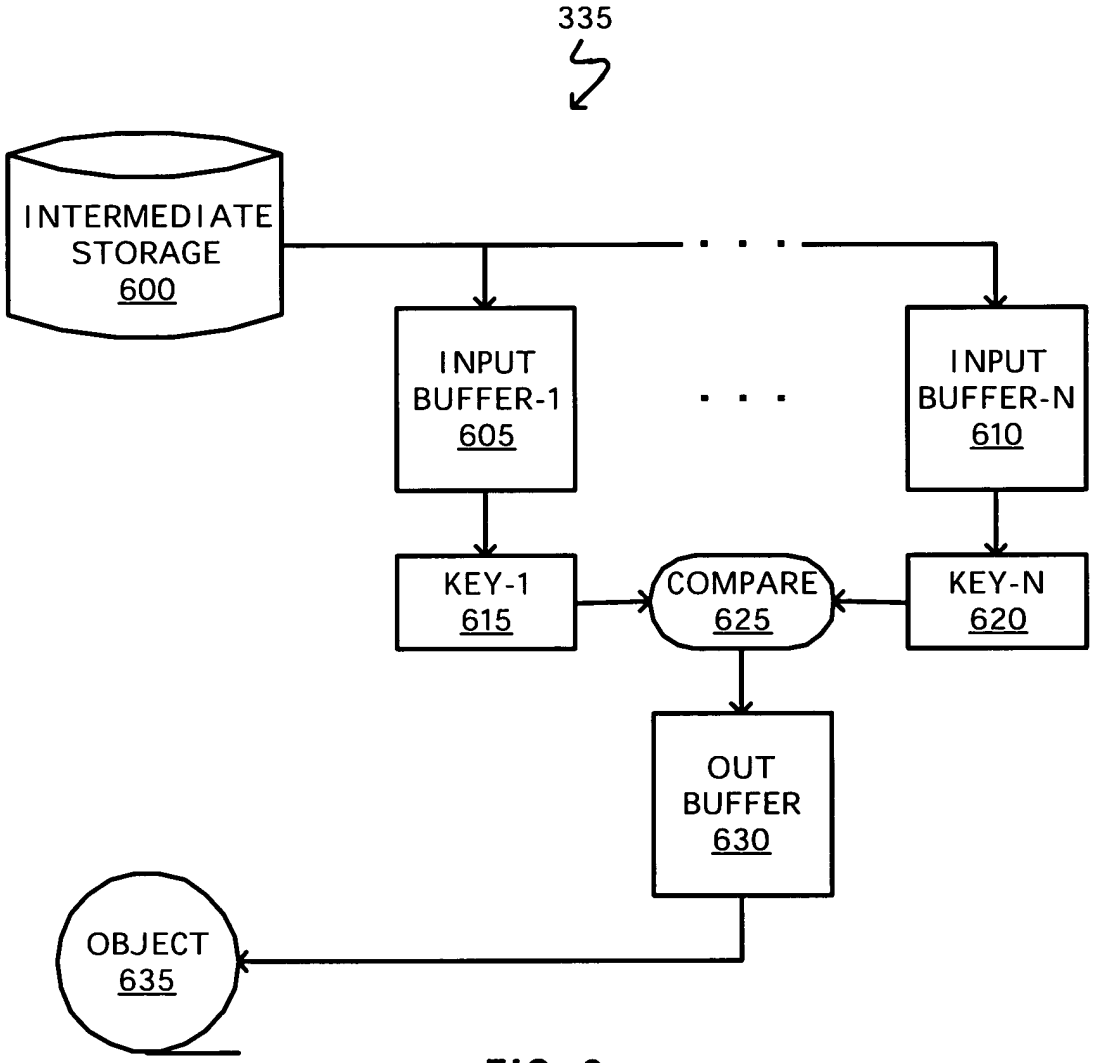
335
INTERMEDIATE STORAGE 600
INPUT BUFFER-1 605
INPUT BUFFER-N 610
KEY-1 615
COMPARE 625
KEY-N 620
OUT BUFFER 630
OBJECT 635

FIG. 6

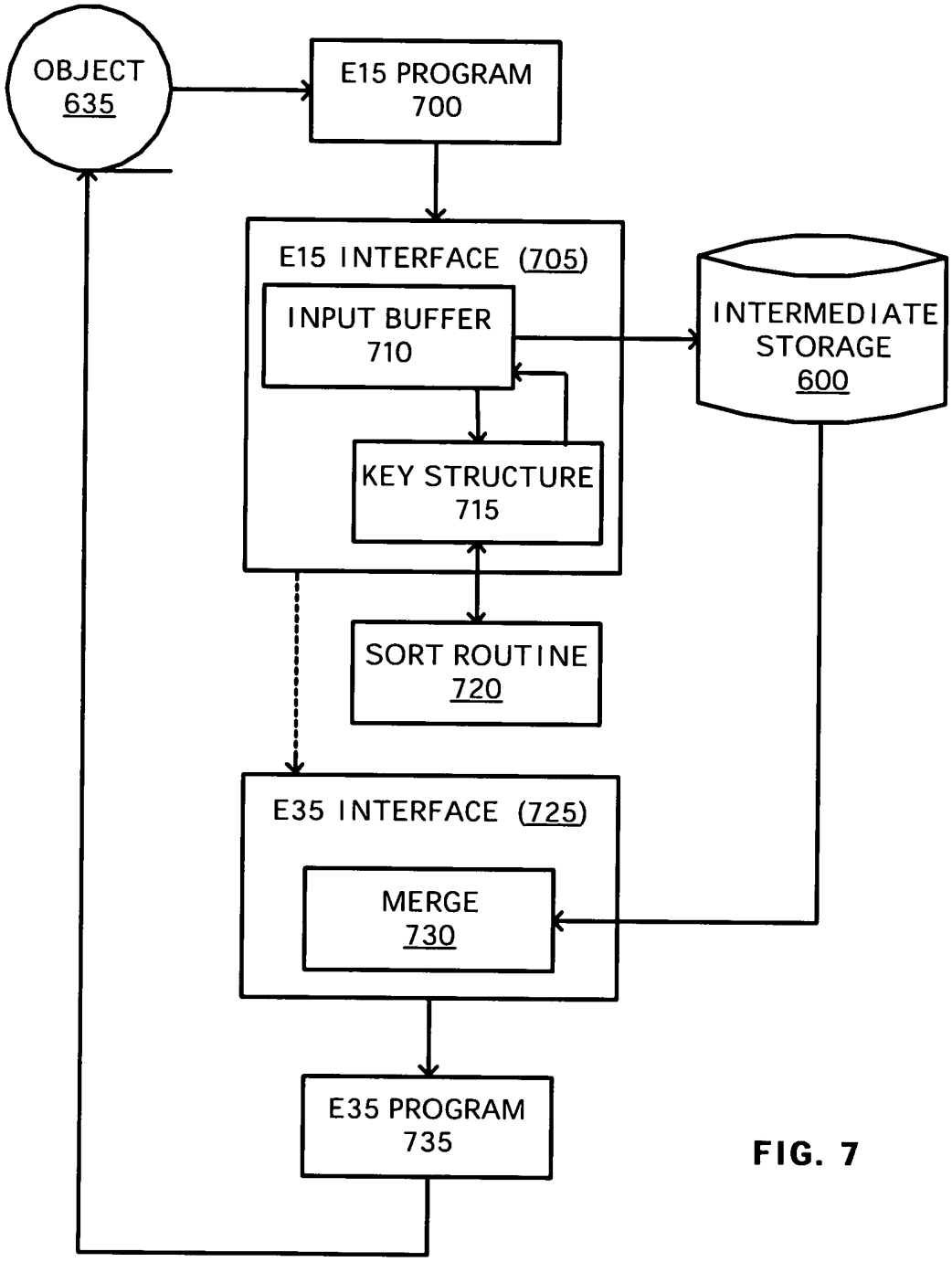
OBJECT
635
E15 PROGRAM
700
E15 INTERFACE (705)
INPUT BUFFER
710
INTERMEDIATE
STORAGE
600
KEY STRUCTURE
715
SORT ROUTINE
720
E35 INTERFACE (725)
MERGE
730
E35 PROGRAM
735

FIG. 7